

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 10-080188

(43)Date of publication of application : 24.03.1998

(51)Int.Cl.

H02P 7/63
H02P 21/00

(21)Application number : 08-234290

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(22)Date of filing : 04.09.1996

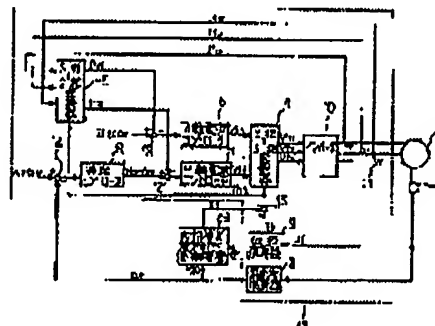
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(54) CONTROL METHOD OF ROTARY MAGNET TYPE POLYPHASE SYNCHRONOUS MOTOR AND ITS EQUIPMENT

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a control method and its equipment of a rotary magnetic type polyphase synchronous motor in which the allowably value of fixing precision of a position detector to the rotary magnet type polyphase synchronous motor is increased, a phase correction value is automatically calculated, and controllability is excellent.

SOLUTION: A position detector 2 detecting a magnetic position of a rotary magnet type polyphase synchronous motor 1 and a driving equipment 43 driving the rotary magnet type polyphase synchronous motor are installed. The rotary magnet type polyphase synchronous motor 1 on which the position detector 2 is fixed is driven with the driving equipment 43. After the rotary magnet type polyphase synchronous motor 1 reaches a constant speed, a current and a driving voltage of the rotary magnet type polyphase synchronous motor 1 are measured. By using the current, the driving voltage, constants of the rotary magnet type polyphase synchronous motor 1, and the above constant speed, the phase correction value of a two axes coordinate system which is used in the control based on the fixing error of the a position detector 2 and a two axes coordinate system in which polyphase AC coordinate system is converted is calculated. The rotor position of the rotary magnet type polyphase synchronous motor 1 from the position detector 2 is corrected by using the phase correction value.



LEGAL STATUS

[Date of request for examination] 28.12.2000

[Date of sending the examiner's decision of rejection] 09.04.2002

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 3336870

[Date of registration] 09.08.2002

[Number of appeal against examiner's decision of] 2002-08152

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rejection]

[Date of requesting appeal against examiner's decision 09.05.2002

of rejection]

[Date of extinction of right]

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